

Abstract

This invention relates to a colour separator and the use of this in a projector, especially for video projectors, comprising a surface adapted to be moved through a light beam to be separated, the surface comprising a diffractive/holographic (DOE) optical element capable of directing different wavelengths comprised in the light beam toward different parts of a predetermined area.

The diffractive optical element being essentially continuous along one direction on the surface moved through the light beam and that direction of the separated colours depending on the position along the surface so as to provide a scanning of colours over each part of the predetermined area depending on the illuminated part of the diffractive surface